

### *Abstract*

One aspect of the present invention relates to methods of synthesizing substituted piperidines. A second aspect of the present invention relates to stereoselective methods of synthesizing substituted piperidines. The methods of the present invention will find use in the synthesis of compounds useful for treatment of numerous ailments, conditions and diseases that afflict mammals, including but not limited to addiction and pain. An additional aspect of the present invention relates to the synthesis of combinatorial libraries of the substituted piperidines using the methods of the present invention. An additional aspect of the present invention relates to enantiomerically substituted pyrrolidines, piperidines, and azepines.